Author index

Abe, T. 365
Abel, G.J.W. 503
Altmann, T. 1
Andria, J.R. 564
Angelini, R. 146
Annen, F. 420
Appenroth, K.-J. 583
Aro, E.M. 196

Bacic, A. 528
Baena-Gonżalez E. 196
Baldwin, I.T. 137
Barbato, R. 196
Barber, M.S. 31
Barlow, P. 19
Barnes, K.A. 588
Barnett, D.C. 212
Barnett, J. 19
Bauw, G. 12
Beligni, M.V. 337
Bennett, R. 409
Benning, C. 352
Biesgen, C. 155
Blay, R. 220
Blobel G. 107
Blumwald, E. 401
Boevink, P. 392
Böhm, H. 114
Boller, T. 319
Bolognesi, A. 125
Bourett, T.M. 472
Burssens, S. 453

Caderas, D. 166
Carver, T.L.W. 444
Chaffey, N. 19
Chateigner, A.-L. 606
Christ, R. 491
Christou, P. 88, 552, 614
Cohen, J.D. 409
Coleman, J. 46
Corbiére, H. 319
Crooks, K. 46
Czymmek, K.J. 472

Damant, A.P. 588
de Almeida Engler, J. 453
de Felipe, M. 73
De Luca P. 125
Delli Bovi P. 125
De Veylder, L. 453
Deunff, Y.L. 606
Diettrich, B. 599
Di Maro A. 125
Divecha, N. 294
Dominguez, E. 181
Dover, C.J. 438
Dumbroff, E.B. 401

El Maâtaoui M. 345
Engler, G. 453
Epstein, E. 409
Evans, P.J. 73

Federico, R. 146
Ferranti, P. 125
Fischer, G. 599
Fisher, D.B. 299
Fleming, A.J. 166
Fliegmann, J. 12
Focks, N. 352
Foissner, I. 480
Foyer, C.H. 444
Francisco, P.B. Jr. 283
Fujita, N. 283
Fujiwara, S. 365
Furuya, M. 98

Gabrys, H. 583
Gahakwa, D. 88, 614
Galland, P. 274
Gallesi, D. 73
Gatehouse, J.A. 552
Gaudio, L. 125
Gebauer, G. 358
Geigenberger, P. 227
Gigliano, G.S. 125
Golombek, S. 66
Granell, A. 220
Grimm, B. 264
Gruissem, W. 310

Haase, A. 358
Hall, J.L. 31, 426
Hall, M.A. 239
Hall, S.A. 31
Halliwell, B. 73
Harada, K. 283
Hasenstein, K.H. 59
Hashimoto, T. 80
Hawes, C. 46, 392
Heim, U. 66
Hennig, L. 257
Henry, M.J. 426
Heredia, A. 181
Hernández-Pinzón, I. 588
Hernandez, M.J. 73
Hiltunen, R. 545
Hinz, G. 205
Hirata, A. 365
Horstmann, C. 66
Howard, R.J. 472
Huxham, I.M. 438

Inzé, D. 453
Ishihara, A. 512
Itoh, R. . 326
Iwamura, H. 512

Jalouzot, R. 606
Janda, T. 175
Jarvis, M.C. 438
Jelesko, J.G. 310
Jenkins, S.M. 310
Johnson, D. 438
Jokelainen, T. 545
Jouhikainen, K. 545

Kalusche, B. 358
Kawano, R. 80
Keller, W.A. 383
Kessler, F. 107
Kiddle, G. 409
Kloppstech, K. 519
Knox, J.P. 438
Kohli, A. 88, 552, 614
Komor, E. 358
Kossmann, J. 503
Kruse, E. 264
Kubigsteltig, I. 463
Kubo, A. 283
Kuhlemeier, C. 166
Kulaeva, O.N. 239
Küllertz, G. 599
Kuroiwa, H. 326
Kuroiwa, T. 326
Kuznetsov, O.A. 59

Lamattina, L. 337
Langebartels, C. 12
Laudert, D. 463
Laurenzi, M. 146
Laurie, D.A. 88, 614
Lescure, B. 453
Li, H. 528

Liebau, A. 599
Lindgren, L. 545
Lloyd, J.R. 503
Lu, X. 552
Luckner, M. 599
Ludwig-Müller, J. 409

Maier, K. 12
Malorni, A. 125
Manevski, A. 453
Marshall, J.G. 401
Martin, B. 392, 401
Martinoia, E. 373
Massonneau, A. 373
Mathieu, C. 73
McQueen-Mason, S. 166
Meijer, H.J.G. 294
Merkouropoulos, G. 212
Messiaen, J. 247
Minaka, N. 283
Mitchell, H.J. 31
Miyagishima, S. 326
Mock, H.-P. 264
Montané, M.-H. 519
Morita, E. 365
Moshkov, I.E. 239
Munnik, T. 294
Murphy, D.J. 588
Musgrave, A. 294

Nakakita, M. 283
Nakamura, Y. 283
Neumann, D. 491
Neumann, G. 373
Nishimura, M. 326
Nishimura, Y. 80
Novikova, G.V. 239
Nozaki, H. 365

Ohtsu, Y. 512
Oksman-Caldentey, K.-M. 545
Onda, S. 80
Oparka, K. 392
Orzáez, D. 220

Páldi, E. 175
Papenbrock, J. 264
Parente, A. 125
Pérez-Lloréns, J.L. 564
Petzold, B. 519
Pichot, C. 345
Pieper, K. 409
Poppe, C. 257
Preston, C.A. 137
Primikirios, N.I. 574
Puppo, P. 73

Qi, H. 552

Ratajczak, R. 205
Rea, G. 146
Read, S.M. 528
Reski, R. 301
Riesmeier, J.W. 227
Robinson, D.G. 205
Rodríguez-Concepción, M. 310
Römheld, V. 373
Ronald, P.C. 552
Ross, J.H.E. 588
Roubelakis-Angelakis, K.A. 574
Rücknagel, P. 599
Ruppel, M. 409
Russell, S.D. 539
Rutledge, R.G. 401

Sagasser, M. 352
Salzer, P. 319

Sandermann, H. Jr. 12
Santa Cruz S. 392
Sato, N. 365
Schäfer, E. 257
Scheuerlein, R. 98
Scheuerlein, R.W. 583
Schierhorn, A. 599
Schliemann, W. 114
Schmidt, J. 491
Schmidt, W. 274
Schnell D. 107
Seymour, G.B. 438
Shakespeare, L. 438
Shichijo, C. 80
Shirsat, A.H. 212
Simmonds, D.H. 383
Smith, A.R. 239
Sonoike, K. 365
Springer, F. 503
Stahlberg, R. 188
Steiner, U. 114
Stewart, D. 181
Stirpe, F. 125
Stitt, M. 227
Stockhaus, J. 420
Strack, D. 114, 491
Stratford, R. 31
Sun, X. 552
Sutton, P.N. 426
Szalai, G. 175

Tang, K. 552
Tari, I. 175
Tavladoraki, P. 146
Teeri, T.H. 545
Tewari, A.K. 431
Thatcher, B.J. 401
Thiel, G. 38
Tinjuangjun, P. 552
Toda, K. 326
Trethewey, R.N. 227
Tripathy, B.C. 431
Tsuzuki, M. 365
Turnwald, S. 98

Unger, S. 257

Vain, P. 88, 614
Valbonesi, P. 125
van den Ende, H. 294
Van Montagu, M. 453
Vanacker, H. 444
Vergara, J.J. 564
Verscht, J. 358
Villena, J.F. 181
Van Cutsem P. 247
Van Volkenburgh, E. 188

Wasteneys, G.O. 480
Weber, H. 66
Wehrli, E. 166
Weiler, E.W. 155, 463
Weise, R. 38
Weiss, M. 491
Weisshaar, B. 352
Willmitzer, L. 227, 503
Wippermann, U. 12
Wobus, U. 66
Wray, V. 491

Xu, Y. 552

Zhang, Z. 539

Author index

Abe, T. 365
Abel, G.J.W. 503
Altmann, T. 1
Andria, J.R. 564
Angelini, R. 146
Annen, F. 420
Appenroth, K.-J. 583
Aro, E.M. 196

Bacic, A. 528
Baena-Gonżalez E. 196
Baldwin, I.T. 137
Barbato, R. 196
Barber, M.S. 31
Barlow, P. 19
Barnes, K.A. 588
Barnett, D.C. 212
Barnett, J. 19
Bauw, G. 12
Beligni, M.V. 337
Bennett, R. 409
Benning, C. 352
Biesgen, C. 155
Blay, R. 220
Blobel G. 107
Blumwald, E. 401
Boevink, P. 392
Böhm, H. 114
Boller, T. 319
Bolognesi, A. 125
Bourett, T.M. 472
Burssens, S. 453

Caderas, D. 166
Carver, T.L.W. 444
Chaffey, N. 19
Chateigner, A.-L. 606
Christ, R. 491
Christou, P. 88, 552, 614
Cohen, J.D. 409
Coleman, J. 46
Corbiére, H. 319
Crooks, K. 46
Czymmek, K.J. 472

Damant, A.P. 588
de Almeida Engler, J. 453
de Felipe, M. 73
De Luca P. 125
Delli Bovi P. 125
De Veylder, L. 453
Deunff, Y.L. 606
Diettrich, B. 599
Di Maro A. 125
Divecha, N. 294
Dominguez, E. 181
Dover, C.J. 438
Dumbroff, E.B. 401

El Maâtaoui M. 345
Engler, G. 453
Epstein, E. 409
Evans, P.J. 73

Federico, R. 146
Ferranti, P. 125
Fischer, G. 599
Fisher, D.B. 299
Fleming, A.J. 166
Fliegmann, J. 12
Focks, N. 352
Foissner, I. 480
Foyer, C.H. 444
Francisco, P.B. Jr. 283
Fujita, N. 283
Fujiwara, S. 365
Furuya, M. 98

Gabrys, H. 583
Gahakwa, D. 88, 614
Galland, P. 274
Gallesi, D. 73
Gatehouse, J.A. 552
Gaudio, L. 125
Gebauer, G. 358
Geigenberger, P. 227
Gigliano, G.S. 125
Golombek, S. 66
Granell, A. 220
Grimm, B. 264
Gruissem, W. 310

Haase, A. 358
Hall, J.L. 31, 426
Hall, M.A. 239
Hall, S.A. 31
Halliwell, B. 73
Harada, K. 283
Hasenstein, K.H. 59
Hashimoto, T. 80
Hawes, C. 46, 392
Heim, U. 66
Hennig, L. 257
Henry, M.J. 426
Heredia, A. 181
Hernández-Pinzón, I. 588
Hernandez, M.J. 73
Hiltunen, R. 545
Hinz, G. 205
Hirata, A. 365
Horstmann, C. 66
Howard, R.J. 472
Huxham, I.M. 438

Inzé, D. 453
Ishihara, A. 512
Itoh, R. . 326
Iwamura, H. 512

Jalouzot, R. 606
Janda, T. 175
Jarvis, M.C. 438
Jelesko, J.G. 310
Jenkins, S.M. 310
Johnson, D. 438
Jokelainen, T. 545
Jouhikainen, K. 545

Kalusche, B. 358
Kawano, R. 80
Keller, W.A. 383
Kessler, F. 107
Kiddle, G. 409
Kloppstech, K. 519
Knox, J.P. 438
Kohli, A. 88, 552, 614
Komor, E. 358
Kossmann, J. 503
Kruse, E. 264
Kubigsteltig, I. 463
Kubo, A. 283
Kuhlemeier, C. 166
Kulaeva, O.N. 239
Küllertz, G. 599
Kuroiwa, H. 326
Kuroiwa, T. 326
Kuznetsov, O.A. 59

Lamattina, L. 337
Langebartels, C. 12
Laudert, D. 463
Laurenzi, M. 146
Laurie, D.A. 88, 614
Lescure, B. 453
Li, H. 528

Liebau, A. 599
Lindgren, L. 545
Lloyd, J.R. 503
Lu, X. 552
Luckner, M. 599
Ludwig-Müller, J. 409

Maier, K. 12
Malorni, A. 125
Manevski, A. 453
Marshall, J.G. 401
Martin, B. 392, 401
Martinoia, E. 373
Massonneau, A. 373
Mathieu, C. 73
McQueen-Mason, S. 166
Meijer, H.J.G. 294
Merkouropoulos, G. 212
Messiaen, J. 247
Minaka, N. 283
Mitchell, H.J. 31
Miyagishima, S. 326
Mock, H.-P. 264
Montané, M.-H. 519
Morita, E. 365
Moshkov, I.E. 239
Munnik, T. 294
Murphy, D.J. 588
Musgrave, A. 294

Nakakita, M. 283
Nakamura, Y. 283
Neumann, D. 491
Neumann, G. 373
Nishimura, M. 326
Nishimura, Y. 80
Novikova, G.V. 239
Nozaki, H. 365

Ohtsu, Y. 512
Oksman-Caldentey, K.-M. 545
Onda, S. 80
Oparka, K. 392
Orzáez, D. 220

Páldi, E. 175
Papenbrock, J. 264
Parente, A. 125
Pérez-Lloréns, J.L. 564
Petzold, B. 519
Pichot, C. 345
Pieper, K. 409
Poppe, C. 257
Preston, C.A. 137
Primikirios, N.I. 574
Puppo, P. 73

Qi, H. 552

Ratajczak, R. 205
Rea, G. 146
Read, S.M. 528
Reski, R. 301
Riesmeier, J.W. 227
Robinson, D.G. 205
Rodríguez-Concepción, M. 310
Römheld, V. 373
Ronald, P.C. 552
Ross, J.H.E. 588
Roubelakis-Angelakis, K.A. 574
Rücknagel, P. 599
Ruppel, M. 409
Russell, S.D. 539
Rutledge, R.G. 401

Sagasser, M. 352
Salzer, P. 319

Sandermann, H. Jr. 12
Santa Cruz S. 392
Sato, N. 365
Schäfer, E. 257
Scheuerlein, R. 98
Scheuerlein, R.W. 583
Schierhorn, A. 599
Schliemann, W. 114
Schmidt, J. 491
Schmidt, W. 274
Schnell D. 107
Seymour, G.B. 438
Shakespeare, L. 438
Shichijo, C. 80
Shirsat, A.H. 212
Simmonds, D.H. 383
Smith, A.R. 239
Sonoike, K. 365
Springer, F. 503
Stahlberg, R. 188
Steiner, U. 114
Stewart, D. 181
Stirpe, F. 125
Stitt, M. 227
Stockhaus, J. 420
Strack, D. 114, 491
Stratford, R. 31
Sun, X. 552
Sutton, P.N. 426
Szalai, G. 175

Tang, K. 552
Tari, I. 175
Tavladoraki, P. 146
Teeri, T.H. 545
Tewari, A.K. 431
Thatcher, B.J. 401
Thiel, G. 38
Tinjuangjun, P. 552
Toda, K. 326
Trethewey, R.N. 227
Tripathy, B.C. 431
Tsuzuki, M. 365
Turnwald, S. 98

Unger, S. 257

Vain, P. 88, 614
Valbonesi, P. 125
van den Ende, H. 294
Van Montagu, M. 453
Vanacker, H. 444
Vergara, J.J. 564
Verscht, J. 358
Villena, J.F. 181
Van Cutsem P. 247
Van Volkenburgh, E. 188

Wasteneys, G.O. 480
Weber, H. 66
Wehrli, E. 166
Weiler, E.W. 155, 463
Weise, R. 38
Weiss, M. 491
Weisshaar, B. 352
Willmitzer, L. 227, 503
Wippermann, U. 12
Wobus, U. 66
Wray, V. 491

Xu, Y. 552

Zhang, Z. 539

Subject index

Aberrant RNA 88
Abscisic acid 599
Abutilon 299
Acid phosphatase 373
Actin filament bundle 480
Action spectrum 80
Aesculus (wood formation) 19
Agave 181
Aliphatic biopolymer 181
Allene oxide synthase (regulation) 463
Allene oxide synthase promoter (transgenic plants) 463
1-Aminocyclopropane-1-carboxylic acid oxidase 220
Amylopectin 283
Anion exchanger 564
Anthocyanin 80
Antioxidant 444
Antioxidant defence 73
Antioxidant enzyme 175
Antisense potato 503
Arabidopsis 1, 212, 257, 409, 463
Arabidopsis (*tt* mutant) 352
Arabidopsis (cyclin) 453
Arabidopsis (GTP binding) 239
Arbuscular mycorrhiza 319
Arginase 574
Arginine decarboxylase 574
Auxin 38, 409
Avena 512
Avena (pathogen resistance) 444
Avenanthramide 512
Azacytidine 88

Bacterial blight (*Xa21* gene) 552
Beta 114
Betacyanin 114
Betalain 114
Biotinylation 46
Blue-light receptor 274
Blumeria 444
Brassica (inflorescence) 205
Brassica (microspore embryogenesis) 383
Brassicaceae 588
Brassinolide 1
Brassinosteroid 1
Brefeldin A 392

^{13}C-NMR spectroscopy 358
C/N interaction 66
C_4 photosynthesis 420
Calcium 38, 583
Calcium (EELS imaging) 438
Callose 528
Callose synthase 528
Carbon translocation (non-invasive measurement) 358
Carbonic anhydrase 564
cDNA cloning 574
Cell cycle 453
Cell expansion 188
Cell wall 166, 383, 401, 438, 528
Cell wall stiffening 146
Cellular damage 337
Chill and heat stress 431
Chlamydomonas 294, 365
Chloromonas 365
Chlorophyll 264
Chlorophyll biosynthesis 431
Chloroplast 107, 264
Chloroplast development 472
Chloroplast protuberances 472
Cinnamate 4-hydroxylase 512
Cinnamyl alcohol dehydrogenase 31
Circadian rhythm 264
Clivia 181
Clubroot disease 409
CO_2-concentrating mechanism 365
Cold stress 175, 519
Coleoptile growth 38
4-Coumarate: CoA ligase 512
Conifers (*Abies, Picea, Pinus, Pseudotsuga*) 491
Cryptic red-light signal 80
Cryptochrome 257
Cucumis (temperature stress) 431
Cupressus 345
Curvature (hypocotyl) 59
Cutan 181
Cuticle 181
Cyanidioschyzon 326
Cyclophilin 599
Cytodifferentiation 19
Cytokinin 239, 301
Cytoplasmic streaming 480

D1 protein 196
Daucus (plasma membrane) 46
Daucus (polyamines) 247
Detoxification of formaldehyde 12
Developmental mutant 301
Digitalis 599
Diquat 337
Direct defenses 137
DNA methylation 88
Dryopteris 98
D-type cyclin 453
Dwarf mutant 1

Early light-inducible protein (complexes) 519
Ectomycorrhiza 491
Elaioplast 588
Electric photoresponse 188
Elicitor 31, 512
Embryogenesis 383
Endocytosis 46
Endoplasmic reticulum 392
Endosperm 283
Erysiphe 444
Erysiphe (carbon source) 426
Ethylene 239
Ethylene response sensor 220
Expansin 166
Expressed sequence tag 301
Extensin 212

Fertilization 539
Flavin 274
Flavonoid 352
Flower senescence 220
Food reserve 345
Formaldehyde dehydrogenase (glutathione-dependent) 12
Free radical 73
Freeze substitution 472
Fruit texture 438

Gametophyte 98
Gene disruption 301
Gene expression 574
Genetic engineering 545
Germin 606
Germination 352, 583, 606
Glomus 319
Glucokinase 227
Glucose transport 426
Glucosinolate 409
β-Glucuronidase 310
Glycine (nodule) 73
Glycolysis 227
Golgi apparatus 392
Gracilaria 564
Gravitropism 59
Green fluorescent protein 392
GTP-binding proteins (small) 239

H_2O_2 synthesis 319
H^+-ATPase 46
H^+-pyrophosphatase (immunogold detection) 205
Hairy root 545
Heme 264
Herbivores 137
High gradient magnetic field 59
High-irradiance response 80
Homoglutathione 73
Homologous recombination 301
Hordeum (stress proteins) 519
Hydrogen peroxide 146, 444
3-Hydroxy-3-methylglutaryl coenzyme A reductase 310
Hyoscyamine-6β-hydroxylase 545
Hyoscyamus 545
Hypocotyl growth 257

Indirect defenses 137
Induced defenses 137
Inorganic carbon uptake 564
Intercellular signaling 98
Invertase 227
Isoamylase 283
Isoform (starch synthase) 503

Jasmonate 463
Jasmonic acid 155, 599

K^+-inward rectifier (channel) 38

Lateral root primordia formation 453
Leaf development 166
Lectin (*gna* gene) 552
Light stress 519
Light-induced absorbance changes 274
Lignification 31
Lipid body 588
Lipoxygenase 606
Lupinus 373
Lycopersicon (gravitropism mutant) 59
Lycopersicon (HMG1 regulation) 310
Lycopersicon (morphogenesis) 166

Magnetophoresis 59
Male germ unit 539
Malus (fruit cell wall) 438
Medicago 319
Megagametophyte 345
Mesocotyl growth and phytochrome 146
Mesophyll 188, 420
Methyl jasmonate 212
Mevalonic acid 310
Microbody 326
Microspore (division symmetry) 383
Microtubule 19, 383
Microtubule orientation 480
Molecular phylogeny 365
Morphogenesis 166
Moss 301
Mutant (*Arabidopsis*) 352
Mutant (tomato) 59
Myosin 539

Nicotiana 392, 463, 528
Nitella 480, 539
Nicotiana (tetrapyrroles) 264
Nitric oxide 337
Nitrogen (EELS imaging) 438
Nodule 73
Nuclear fusion 345

Octadecanoid biosynthesis 155
Organelle proliferation 326
Organic acids 373
Oryza (chloroplast structure) 472
Oryza (co-transformation) 552
Oryza (transgenic) 88
Oryza (isoamylase) 283
Osmotic stress 294, 401
Oxidative insolubilization 401
12-Oxophytodienoic acid 155
12-Oxophytodienoic acid-10, 11-reductase 155

Particle bombardment 88
Pathogen resistance (race non-specific) 444
Pectin 247
Peptidyl-prolyl *cis/trans* isomerase 599
Peroxidase 146
pH 38
pH-drift 564
Phenylalanine ammonia-lyase 512
Phenylpropanoids 491
Phloem unloading 358
Phosphatidylinositol 3,5-bisphosphate 294
Phosphoenolpyruvate carboxylase (gene expression, metabolic regulation) 66
Phosphorus (deficiency, uptake) 373
Photoreceptor 301
Photosynthesis 175, 188, 564
C_4 Photosynthesis 420
Phototropism mutants 274
Phycomyces 274
Physcomitrella 301
Phytochrome 80, 98, 257, 583
Phytohormone 1
Phytolacca 125
Phytophthora 337
Pigment synthesis 264
Pinus (root turgor) 401
Pisum (Argenteum mutant) 188
Pisum (ethylene, senescence) 220
Pisum (lipoxygenase) 606
Plant defence 319
Plasma membrane 205
Plasma membrane protein (carrot) 46
Plasma-membrane H^+-ATPase 188
Plasmodesma 299
Plasmodiophora 409
Plastoglobule 107
Plastoglobulin 107
Plumbago 539
Pollen tube 528
Pollination 220
Polyamine 247, 574
Polyamine oxidase 146
Polynucleotide:adenosine glycosidase 125
Polyphenol oxidase 114
Polyploidization 345
Portulaca 114
Powdery mildew 426
Preprophase band 383
Proembryonic mass 599
Programmed cell death 146
Promoter-GUS fusion 155
Protein import and assembly 107
Protein kinase 420
Protein (oleosin-like) 588
Protein phosphorylation 239
Protein secretion 392
Protein sequence 12
Protein turnover 46
Protochlorophyllide 431
Proton pumping 205
Protoporphyrin IX 431
PSII Phosphorylation 196
PSII Repair cycle 196
Pyrenoid 365

Reactive oxygen species 337
Red-light receptor 274
Resistance genes (*gna* Xa21) 552
Rhizoid 98
Rhodophyta 326
Ribosome-inactivating protein 125
Ribulose-1,5-bisphosphate carboxylase/oxygenase 365
Ricinus (phloem, sucrose) 358
Root exudates 373
Root polypeptides 401

Salicylic acid 175, 212
Scopolamine 545
Secondary vascular tissue 19
Seed 352
Semiquinone 274
Senescence 73
Shoot apex 166
Signal transduction 247, 294, 583
Solanum 227
Solanum (oxidative stress) 337
Solanum (starch synthase) 503
Sorghum 420
Sorghum (phytochrome) 80
Sperm transport 539
Spirodela (germination) 583
Starch 227, 283
Starch structure 503
Starch-debranching enzyme 283
Steroid 1
Stress 599
Stromule 472
Sucrose 227, 358
Sugar transport 426
Symbiosis 319
Symplasm 299

Tapetosome 588
Tapetum 588
Temperature stress 431
Tip growth 98
Tolerance 137
Toxins 137
Transgene silencing 88
Transgenic potato 503
Transgenic tomato 310
Transient gene expression (*HMG1*) 310
Transparent testa 352
Triticum 31, 426
Tropane alkaloid 545
Tuber 503
Turgor 401
Turion 583
Tyrosinase 114

Units, symbols, abbreviations 132

Vacuolar H^+-ATPase 205
Vicia seed development 66
Vitis (polyamine) 574

Wounding 212, 480

Xanthophylls 519
Xylem 19

Zea 175
Zea (coleoptile protoplasts) 38
Zea (cell wall stiffening) 146
Zea (formaldehyde dehydrogenase) 12
Zymogen 528